SYNCHROTEQ® - 2019 CATALOG

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
14 - SynchroTeq MV- Control Units			

The SynchroTeq MV is the most advanced Controlled Switching Device (CSD) - Inrush current limiter available on the market suitable for three pole, staggered pole or single pole operated circuit breakers (C/Bs). The SynchroTeq MV not only controls C/B switching; it also monitors and reports C/B performance problems and alarms. Its design is based on the highly successful field-proven SynchroTeq Plus product with built-in serial and Ethernet communication ports.
SynchroTeq MV products can control existing or new MV Independent Pole Operated (IPO) and gang-operated circuit breakers regardless of their switching technology. SynchroTeq MV fits in new or existing installations and is the most compact design for MV switchgears.
SynchroTeq MV is ideally suited for precise timing control of medium voltage circuit breaker applications not only in a distribution substation but also in railways and industrial environments.
The SynchroTeq MV units must be ordered by first filling out the Smart Coding form that specifies the exact configuration of the product based on the customer's requirements. Please refer to SynchroTeq MV Smart Coding (STM0x0000-SC-en). Available in two compact models, each SynchroTeq MV is dedicated to control medium voltage switching loads such as capacitor banks, shunt reactors, filters, power transformers, etc.
All SynchroTeq MV units are available in three different mounting options:

- Standard: Mounts directly inside a breaker control enclosure and includes movable mounting brackets for multiple mounting positions (horizontal or vertical).
- Panel Mount: Mounts within a rectangular cut-out on any control enclosure and includes dual control panels. Panel footprint: 105 x 305 mm (4.1 x 12.0 in), pinch brackets provided.
- Rack Mount: Mounts on standard 19 in rack and includes dual control panels. Ethernet port is accessible from the front. Panel size: 3U standard panel (5.219 x 19 in).

The SynchroTeq MV learns, predicts and corrects circuit breaker operations and also provides residual flux management for MV power transformer energization. Therefore, it reduces inrush current, improves the stability and reliability of medium voltage electric systems, increases facility uptime, retrofits existing C/B and achieves clean and stable power from distributed energy resources.
VIZIMAX offers the SynchroTeq Communication Module as an option to communicate with, or operate SynchroTeq MV units using major substation protocols including DNP3, Modbus, and IEC 61850 on Ethernet Copper or FO links. (See Section 8 - SynchroTeq/SynchroTeq Plus - Communication Module)
SynchroTeq MV units are compliant with NERC CIP, IEEE std 1686–2007 and IEEE std C37.231-2006 for security requirements.
The SynchroTeq Configuration Suite is a user interface allowing the configuration and operation of the SynchroTeq MV units. This multi-language software is composed of three (3) interfaces: a PC Based Configuration tool for operation parameters; a Web-Based Waveform to capture, record, analyze and export data in COMTRADE format; and a Web-based Event Logger for events journal and alarms. VIZIMAX provides the SynchroTeq Configuration Suite on a CD-ROM with SynchroTeq MV units. Please refer to the related technical manuals for detailed specifications.

SynchroTeq MVR base unit (Smart Coding to be confirmed) for MV shunt reactors, capacitor banks and filters switching applications. -40°C to +85°C (-40°F to +185°F)	STM010000	The SynchroTeq MVR is for MV shunt reactors, capacitor banks and filters switching applications and features: - Acquisition duration: 2 s - Maximum historical data: 500 events - Interface: 2x Serial RS232/RS485, 2x Ethernet Fiber Optic, USB - Power supply or I/O voltages: 24Vdc, 48Vdc, 125Vdc or 220Vdc - 3x CT inputs: 1 or 5 amps RMS nominal - 10x digital inputs (52a, open/close command, etc.) - 2x compensation inputs (temperature, C/B coil voltage) - 6x digital outputs to command C/B coils (trip/close) - 4x alarm outputs - 1x PT input for source voltage measurement - Optional SynchroTeq Communication Module (RWK000016) with IEC 61850, Modbus and DNP3 Energy Protocols on Ethernet copper or FO links (see Section 8 - SynchroTeq - Communication Module)	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
SynchroTeq MVX base unit (Smart Coding to be confirmed) to control single-pole (IPO) and three-pole operated (Gang operated) circuit breaker for three-phase MV power transformer switching applications - Compatible w/ either wall, rack or panel mount, -40°C to +85°C (-40°F to +185°F)	STM030000	The SynchroTeq MVX controls single-pole (IPO) and three-pole operated (Gang operated) circuit breakers for three-phase MV power transformer switching applications and features: ▸ Acquisition duration: 2 s ▸ Maximum historical data: 500 events ▸ Interface: 2x Serial RS232/RS485, 2x Ethernet Fiber Optic, USB ▸ Power supply or I/O voltages: 24Vdc, 48Vdc, 125Vdc or 220Vdc ▸ 3x CT inputs: 1 or 5 amps RMS nominal ▸ 10x digital inputs (52a, open/close command, etc.) ▸ 2x compensation inputs (temperature, C/B coil voltage) ▸ 6x digital outputs to command C/B coils (trip/close) ▸ 4x alarm outputs ▸ 1x PT input for source voltage measurement ▸ 3x additional PT input for residual flux calculation on power transformer core ▸ Optional SynchroTeq Communication Module (RWK000016) with IEC 61850, Modbus and DNP3 Energy Protocols on Ethernet copper or FO links (see Section 8 - SynchroTeq - Communication Module)	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
4 - SynchroTeq Plus - Control Unit			

The SynchroTeq Plus base unit is an advanced, modular and expandable Inrush current limiter - Controlled Switching Device (CSD) - Point-on-Wave switching - for ALL high voltage circuit breakers (C/B).
The SynchroTeq Plus is a manufacturer agnostic solution to control either brand new or existing circuit breakers. SynchroTeq Plus performs secure and reliable switching operations of capacitor banks, shunt reactors, filters, power transformers and power lines. Thanks to unique features such as fast switching, ability to handle partially discharged capacitor banks and more, SynchroTeq Plus is suitable for SVC and STATCOM applications.
The SynchroTeq Plus unit must be ordered by first filling out the Smart Coding form that specifies the exact configuration of the product based on the customer's requirements (Please refer to SynchroTeq Plus Smart Coding).
The mounting ears are installed in the front of the unit for 19"/482mm rackmount installation in substation control house, but they can also be installed at the back end or bottom side of the unit for integration within the HV C/B control cabinet.
The SynchroTeq Plus can receive:

- Up to two (2) Ethernet fiber optic smart plug-ins for maintenance and data analysis (See Section 10 - SynchroTeq Plus Options - Communication Ports)
- Additional three phase voltage measurements and application software to calculate the residual Flux on power transformer applications. This board offers state-of-the-art acquisition and control, through PT / bushing sensors for power transformers (See Section 5 - SynchroTeq Plus Options - Function boards)
- Optional bypass module (see STP030302) and SPSBO with floating coil control outputs (see STP030304) are available

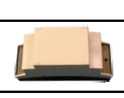
The SynchroTeq Plus learns, predicts and corrects CB operations and also provides residual flux management for power transformer energization. Therefore, it reduces inrush current, limits stresses on transformers, eliminates voltage disturbances and lowers network outages.
VIZIMAX offers the SynchroTeq Communication Module as an option to communicate with, or operate the SynchroTeq Plus unit using major substation protocols including DNP3, Modbus and IEC 61850 on Ethernet copper or FO links. (See Section 8 - SynchroTeq - Communication Module)
The SynchroTeq Plus unit is compliant with NERC CIP, IEEE std 1686–2007 and IEEE std C37.231-2006 for security requirements.
The SynchroTeq Configuration Suite is a user interface allowing the configuration and operation of the SynchroTeq Plus unit. This multi-language software is composed of three (3) interfaces: a PC based configuration tool for operation parameters; a web-based waveform to capture, record, analyze and export data in COMTRADE format; and a web-based event logger for events journal and alarms.
VIZIMAX provides the SynchroTeq Configuration Suite on a CD-ROM with the SynchroTeq Plus unit.
Please refer to the related technical manuals for detailed specifications.

SynchroTeq Plus base unit (Smart Coding to be confirmed) - Compatible w/ either Rackmount or standalone mounting, -40°C to +85°C (-40°F to +185°F)	STP030000	The SynchroTeq Plus features:: - Acquisition duration: 2 s - Maximum historical data: 2,000 events - Interface: Serial RS485, 2x Ethernet Fiber Optic, USB and SD card - Power supply or I/O voltages: 48 Vdc, 110 Vdc, 125 Vdc, 220 Vdc - Line Current Input: 1 or 5 amps RMS nominal - Residual Flux management: Acquisition boards for bushing sensors or PTs with or without analog compensation (See Section 5 - SynchroTeq Plus Options - Function boards) - Optional Bypass module (See STP030302) - Optional SPSBO with floating coil control outputs (See STP030304) - External connectors: Screw type on the rear panel - Optional SynchroTeq Communication Module (RWK000016) with IEC 61850, Modbus and DNP3 Energy Protocols on Ethernet copper or FO links (see Section 8 - SynchroTeq - Communication Module) - Up to two (2) additional communication ports are available on rear panel (see Section 10 - SynchroTeq Plus Options - Communication Ports), ONLY for remote data analysis and maintenance.	
SHL-1 - DCO Type - **Bypass Module**	STP030302	The function board with SHL-1 Bypass module (DCO Type) allows the C/B to be switched when the controlled switching functions are not available (unit unpowered, defective or out of service).	
Select Before Operate board (SPSBO) with floating coil control outputs	STP030304	The option allows the separation of the OPEN and CLOSE circuit breaker commands on two different isolated power supply - This option allows to replace the Dual supply circuit breaker coils commands (STP030303) option and is available at no extra cost.	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
10 - SynchroTeq Plus/MV Options - Communication Ports			
The SynchroTeq Plus supports up to two (2) communication ports on the rear panel, used ONLY for remote data analysis, commissioning, maintenance and time synchronization			
Single Port, 100BASE-FX Ethernet on Multimode Fiber Optic with ST Connector, -40°C to +75°C	RWC0D0000	The 100BASE-FX Ethernet Plug-In for SynchroTeq Plus rear slots features: one (1) 100Mbps Multimode Fiber Optic Ethernet connection, with built-in 1300 nm transceiver and optical performance compliant to the FDDI PMD standard (ISO/IEC 9314-3:1990 and ANSI X3.166 – 1990). Supported fiber types: Multimode fiber optic with 62.5/125 µm or 50/125 µm core/clad diameter. Requires two (2) fibers (Tx and Rx, duplex cable) with bayonet-style connectors (ST).	
Single Port, Isolated 100BASE-T Ethernet with RJ45 connector, -40°C to +75°C	RWC0C0000	The Single Port Ethernet Plug-In for SynchroTeq Plus rear slots features: one (1) isolated 100BASE-T LAN connection, operated at 10/100Mbps (auto-detect). A standard RJ45 connector receives twisted-pair copper cables (Category 5 or 6), and offers a 500V galvanic isolation. Multi-protocol supports with virtually unlimited number of concurrent services.	
Single Port, 100BASE-LX10 Ethernet on Single mode Fiber Optic with LC connector, -40°C to +75°C	RWC0P0000	The 100BASE-LX10 Ethernet Plug-In for SynchroTeq Plus rear slots features: one (1) 100Mbps Single mode Fiber Optic Ethernet connection, with built-in 1300 nm transceiver compliant to Class 1 CDRH/IEC 825 and IEEE 802.3ah standards. Supported fiber type: Single mode fibers (Tx and Rx, duplex cable) with a LC style connector, compatible with SFF Multi Source Agreement (MSA).	
Single Port, IRIG-B module, -40°C to +75°C	RWC0Y000X	Optional IRIG-B module for SynchroTeq Plus (RWC0Y0000) and SynchroTeq MV units (RWC0Y0001). The IRIG-B signal is fed using either an IEC 60044-8 TTL compliant signal connected to the BNC connector, or an IEC 61869-9 compliant fiber optic signal connected to the ST type fiber optic connector. This option must be ordered at the same time as the SynchroTeq Plus/MV unit order.	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
5 - SynchroTeq Plus Options - Function boards			
Additional three phase voltage measurement and application software to calculate the residual flux on power transformer applications. Suitable for the SynchroTeq Plus Unit (STP030000).			
Three (3) additional Power Transformer Bushing Sensor inputs for acquisition & residual flux calculation	STP030101	Additional three phase voltage measurement required for power transformer and application algorithm to calculate residual flux. Function board features: ▸ Three (3) additional power transformer bushing sensor inputs suitable for VIZIMAX bushing sensors ONLY. Please refer to Section 6 - SynchroTeq Plus - Bushing Sensors. ▸ Cables and junction box may be ordered, please refer to Section 7 - SynchroTeq Plus - Wiring and Accessories This board must be plugged on slot 1 of the SynchroTeq Plus unit	
Three (3) additional PT inputs + Three (3) 4-20 mA sensor inputs for acquisition & residual flux calculation	STP030103	Additional three phase voltage measurement required for power transformer and application algorithm to calculate residual Flux. Function board features: ▸ Three (3) additional PT inputs ▸ Three (3) 4-20 mA sensor inputs This board fits in slot 1 of the SynchroTeq Plus unit	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
6 - SynchroTeq Plus - Bushing Sensors			
The high voltage transformer bushing voltage sensor is connected to the transformer bushing test tap for the measurement of the voltage on the load side as a replacement for a conventional PT. This sensor is optionally used by SynchroTeq Plus for the transformer's residual flux calculation. This sensor measures the voltage on the test tap and converts it to an isolated 4-20mA current loop. The unit also measures the bushing temperature for alarm indication. A set of bushing sensors for Power Transformer + Cables + Junction box must be ordered with the STP030101 function board. Please refer to Section 5 – SynchroTeq Plus Options - Function boards and Section 7 - SynchroTeq Plus - Wiring and Accessories Please refer to the related technical manuals for detailed specifications. Please fill out the SynchroTeq Plus - Bushing Sensors Configuration document if you choose one of the following bushing sensors. Other types of bushing sensors are available - Please inquire.			
Three (3) bushing sensors	STP030400	Three (3) bushing sensors for residual flux calculation of power transformer. (Exact type to be determined upon reception of completed Smart Coding form)	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
7 - SynchroTeq Plus - Wiring and Accessories			
The following accessories and cables are suitable to connect the SynchroTeq Plus unit (STP030000) to the VIZIMAX Bushing Sensors. This section is available ONLY if you selected the function board STP030101 in Section 5 - SynchroTeq Plus Options - Function boards			
Three (3) cables - SynchroTeq Plus to terminal block - 3m/10 feet each	STP030170	Three (3) cables allow terminal block connection to the SynchroTeq Plus unit. All cables are equipped and terminated for an immediate connection to the main unit and free wires on the other side. ▸ Cable length: 3 m/10 feet	
Three (3) cables - SynchroTeq Plus to terminal block - 5m/15 feet each	STP030180	Three (3) cables allow terminal block connection to the SynchroTeq Plus unit. All cables are equipped and terminated for an immediate connection to the main unit and free wires on the other side. ▸ Cable length: 5 m/15 feet	
Active Junction Box with 3 connections	STP030200	One (1) active junction box includes three (3) free wires connectors on SynchroTeq Plus side and power transformer side. The active junction box has the following dimensions: ▸ Height: 17.44“ (442.98 mm) ▸ Width: 13.95“ (354.33 mm) ▸ Length: 6“ (154.2 mm) ▸ Weight: 28 lbs (12.7 Kg)	
Active Junction Box with 1 connection	STP030201	One (1) active junction box includes one (1) free wire connector on SynchroTeq Plus side and power transformer side. The active junction box has the following dimensions: ▸ Height: 17.44“ (442.98 mm) ▸ Width: 13.95“ (354.33 mm) ▸ Length: 6“ (154.2 mm) ▸ Weight: 28 lbs (12.7 Kg)	
One (1) cable - junction Box to bushing sensor - 15m/50 feet	STP030315	One (1) cable allows bushing sensor connection to the junction box. Cable is equipped and terminated for an immediate connection at the bushing sensor side and free wires on the junction box side. One (1) cable per phase must be ordered. Comes with pre-assembled connector ▸ Cable length: 15 m/50 feet	
One (1) cable - junction Box to bushing sensor - 30m/100 feet	STP030330	One (1) cable allows bushing sensor connection to the junction box. Cable is equipped and terminated for an immediate connection at the bushing sensor side and free wires on the junction side. One (1) cable per phase must be ordered. Comes with pre-assembled connector ▸ Cable length: 30 m/100 feet	
One (1) cable - junction Box to bushing sensor - 50m/164 feet	STP030350	One (1) cable allows bushing sensor connection to the junction box. Cable is equipped and terminated for an immediate connection at the bushing sensor side and free wires on the junction side. One (1) cable per phase must be ordered. Comes with pre-assembled connector ▸ Cable length: 50 m/164 feet	
One (1) Diode Trio, 300V-45A, w/transient suppressors.	STA030302	Diode Trio, 300V-45A, with transient suppressors. This diode is an alternative when 3-p commands are not available using the bypass module STP030302.	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
8 - SynchroTeq - Communication Module			
The SynchroTeq Communication Module allows the device to communicate with, or operate a SynchroTeq platform using major substation communication protocols including DNP3, Modbus and IEC 61850 protocols on Ethernet Copper or FO links. The SynchroTeq Communication Module is compatible with the SynchroTeq Plus (STP030000) and all SynchroTeq MV (STM0x0000) units and is configured using an XML customization file. Option - The SynchroTeq Communication Module can be configured and programmed using the SynchroTeq Communication Software (see RWS020000) Please refer to the related technical manuals for detailed specifications.			
SynchroTeq Communication Module for STP030000 units and STM0x0000.-40°C to +85°C (-40°F to +185°F)	RWK000016	The standard SynchroTeq Communication Module includes: Two (2) isolated Ethernet 100BASE-T port + one (1) 100BASE-FX Ethernet Fiber Optic Multimode port + two (2) isolated Serial RS485/RS232 ports + one (1) Digital Output and DNP3 Slave, Modbus Slave and IEC 61850 Server protocols – Integrated XCBR LN	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
11 - SynchroTeq - Communication Software			
Software for PC or Server platforms (MS Windows), VIZIMAX Unified Communication Services make it easier to retrieve real-time status information, events and data records from VIZIMAX SynchroTeq Plus and SynchroTeq MV units. Real-time status information is published and shared using the OPC UA protocol and is made available for easy integration in SCADA or DCS environment. This software tool leverages non-proprietary yet secure HTTPS communication protocols, thus enabling two-way transfer and store operations between computers/servers and SynchroTeq units over a variety of communication infrastructure. These services are run and controlled as background services.			

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
VIZIMAX Unified Communication Services in substations : Data Transfer and OPC UA Server for a limited number of VIZIMAX products. Automatic transfer and mirroring of event/waveform/COMTRADE files. OPC UA Server interface for SCADA/DCS	RWS055000	VIZIMAX Unified Communication Services in substations allow: ▸ Transfer and storage of statuses, events/alarms, waveform recordings and COMTRADE files from up to ten (10) SynchroTeq Plus or SynchroTeq MV units over an Ethernet local area network. ▸ Mirroring of SynchroTeq Plus and SynchroTeq MV contents with data viewer. Data files, up to 2,000 switching events (SynchroTeq Plus) or 500 switching events (SynchroTeq MV), will be collected. ▸ Seamless integration of SynchroTeq Plus and SynchroTeq MV data models in industrial SCADA/DCS environment – or any other compatible environment - through OPC UA Server interface, allowing for real-time exchange, visualization, event generation and setting (when feasible) from statuses, commands, parameters, set points, calculated.	
VIZIMAX Unified Communication Services in Central Sites: Data Transfer and OPC UA Server Accommodates an unlimited number of remote VIZIMAX products. Automatic transfer and mirroring of event/waveform/COMTRADE files. OPC UA Server interface and advanced tools for SCADA/HMI in central sites.	RWS065000	VIZIMAX Unified Communication Services in Central Sites allow: ▸ Transfer and storage of statuses, events/alarms, waveform recordings and COMTRADE files from an unlimited number of remote SynchroTeq Plus and SynchroTeq MV units over IP-based communication networks. ▸ Automatic retrieval and archiving of SynchroTeq Plus and SynchroTeq MV content. Data content from unlimited numbers of switching events (SynchroTeq Plus and SynchroTeq MV) will be collected and stored. Data volume will be capped according to the available storage capacity in the central site. ▸ Seamless integration of SynchroTeq Plus and SynchroTeq MV data models in central SCADA or HMI solutions in control rooms through OPC UA Server interface and rich data management features allowing for real-time exchange, visualization and event generation from statuses, commands, parameters, set points, calculated data. ▸ The most appropriate communication and data refresh rate with respect to the available network infrastructure and performances (on-demand/manual, timed, scheduled).	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
16 -SynchroTeq Plus - Transformers Re-energization Advisory System			
Transformers Re-energization Advisory System available for the re-energization of two (2) or three (3) power transformers in parallel operated by one circuit breaker.	BDL000004	Transformers Re-energization Advisory System (TRAS). This Electronic Switch supports two (2) or three (3) sets of sensors for one (1) SynchroTeq Plus unit equipped with flux management option. This unit ensures seamless energization of two (2) or three (3) power transformers in parallel using a single circuit breaker. Project feasibility must be confirmed by VIZIMAX's technical experts.	
DESCRIPTION	**PART NUMBER**	**SUMMARY**	**PICTURE**
17 - SynchroTeq MV Demo Case (For official distributors only)			
SynchroTeq MV Portable Demo Case with Built-in SynchroTeq MV unit - Operation panel, functional Switching of Partially Charged Cap Bank, event Database and Web-based Operation Interface. Ethernet port (RJ45) for PC Computer with installed SynchroTeq Configuration Suite. 100~240VAC 50/60Hz – Dim: 12.2 x 19 x 7 inches	STM065000	The SynchroTeq MV Demo Case (STM065000) is a portable device that reproduces the behavior of real devices to potential customers. The built-in operation panel with push buttons, potentiometer and indicators makes it possible to control capacitor bank switching, with adjustable trapped charge for event generation in SynchroTeq MV journals. The demo case includes a fully operational controlled switching device SynchroTeq MV. Use the SynchroTeq Configuration Suite on PC computer for system parameterization and operation. The VIZIMAX Configuration Tools (configuration software tool with waveform analyzer) must be installed on PC computer for SynchroTeq MV configuration and waveform file review/analysis. The SynchroTeq MV unit is operated through web browser for log-in, statuses, events and alarms. Portable, it is also rugged and can be checked on airplanes. This simulator is the perfect tool to demonstrate software tools operation and to simulate primary equipment operation. The SynchroTeq MV Demo Case features: ▸ 120/240 Vac power supply ▸ 50/60 HZ ▸ Durable housing, molded & rugged polyethylene construction with heavy-duty twist latches, front / rear lids and side handles ▸ Dim: 12.2 x 19 x 7 inches ▸ 4x pushing buttons to simulate random and controlled capacitor bank switching ▸ 1x pushing button to discharge capacitor bank The purchase and use of SynchroTeq MV Demo Case is limited to distributors. The setup is neither intended for resale nor for operation in the field. PC computer with web browser and Ethernet cable are not included.	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
12 - SynchroTeq - Training & Services			

VIZIMAX offers pre-configuration, remote or on-site commissioning, training and remote support that cover all aspects of its SynchroTeq system.
Pre-configuration includes in-house review of the installation drawings, revision of single line diagrams and control schematics and preparation of the CSD configuration. This service is provided on an 8h / week-day basis by one (1) application specialist.
VIZIMAX offers on-site or remote commissioning that includes download and correction of the configuration on the site, no load and load testing of the circuit breaker and commissioning report. Commissioning services are provided on an 8h / week-day basis per involved specialist - Travelling time & living expenses excluded
VIZIMAX offers training provided on an 8h/ week-day basis by one (1) specialist for up to five (5) attendees and extra will be charged for each additional participant, up to a total of 10. Trainer's travelling time & living expenses are excluded.
VIZIMAX also offers remote support provided by one (1) specialist.
Services and Training modules are exclusive of all applicable taxes / duties (such as, without limitation, all sales, export or import duties, reservations, travelling costs and time, hotels & living expenses, vehicle rentals, mileage fees).
Extra-costs may apply for special requests (overtime, week end, overnight working activities)
Trainer's travelling time and living expenses such as reservations, travelling costs, hotels, vehicle or equipment rentals, mileage fees will be invoiced on a cost+15% basis
Prices and conditions herein do not constitute a formal offer.
Limitations of liability apply, please contact our application specialists by filling in the support form on our website, for any SynchroTeq related enquiry or assistance for product definition.

SynchroTeq Plus Service - Pre-configuration	STV0100AK	PREPARATION OR PRE-CONFIGURATION In-house review of the installation drawings provided by the customer Revision of single line diagrams and control schematics Preparation of the CSD configuration Per day fee, per involved specialist	
SynchroTeq Plus Service - On-site commissioning assistance or SAT	STV0100AL	ON-SITE COMMISSIONING ASSISTANCE or SAT Download and correction of the configuration on the site No load testing of the circuit breaker Load testing and adjustments Commissioning report Per day fee, per involved specialist (Travelling time & living expenses excluded)	
SynchroTeq Plus Service - Remote commissioning assistance	STV0100AH	REMOTE COMMISSIONING ASSISTANCE Per day fee, per involved specialist Individual calls will be charged at a minimum of 30 minutes	
SynchroTeq Plus Service – Training	STV0100AD	TRAINING Price is for up to 5 participants. 500$ extra will be charged for each additional participant, up to a total of 10. Travelling time & living expenses excluded Per day fee, per involved specialist	
SynchroTeq Plus Service - Remote support	STV0100AS	REMOTE SUPPORT Per hour fee, per involved specialist Individual calls will be charged at a minimum of 30 minutes	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
SynchroTeq Plus Service - Travelling time	STV0100AM	TRAVELLING TIME Travel and living expenses excluded. For more details, please consult VIZIMAX's General Sales Terms and Conditions. Per-day fee, per involved specialist	
SynchroTeq MV Service - Pre-configuration	STV0110AK	PREPARATION OR PRE-CONFIGURATION In-house review of the installation drawings provided by the customer Revision of the one line diagrams and the control schematics Preparation of the CSD configuration Per day fee, per involved specialist	
SynchroTeq MV Service - On-site commissioning assistance or SAT	STV0110AL	ON-SITE COMMISSIONING ASSISTANCE or SAT Download and correction of the configuration on the site No load testing of the circuit breaker Load testing and adjustments Commissioning report Per day fee, per involved specialist (Travelling time & living expenses excluded)	
SynchroTeq MV Service - Remote commissioning assistance	STV0110AH	REMOTE COMMISSIONING ASSISTANCE Per day fee, per involved specialist Individual calls will be charged at a minimum of 30 minutes	
SynchroTeq MV Service – Training	STV0110AD	TRAINING Price is for up to 5 participants. 500$ extra will be charged for each additional participant, up to a total of 10. Travelling/living time & expenses excluded Per day fee, per involved specialist	
SynchroTeq MV Service - Remote support	STV0110AS	REMOTE SUPPORT Per hour fee, per involved specialist Individual calls will be charged at a minimum of 30 minutes	
SynchroTeq MV Service - Travelling time	STV0110AM	TRAVELLING TIME Travel and living expenses excluded. For more details, please consult VIZIMAX's General Sales Terms and Conditions. Per-day fee, per involved specialist	